

EXHIBIT "B"

NM_173674 versus Sequence 7
Length = 1768

Score = 3459 bits (1745), Expect = 0.0
Identities = 1751/1753 (99%)
Strand = Plus / Plus

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Query: 224  ggcgaggagctgggtgatggctgtggacacctagtgtgacttatcaggatagtggcacaat 283
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Sbjct: 1    ggcgaggagctgggtgatggctgtggacacctagtgtgacttatcaggatagtggcacaat 60

Query: 284  gacatctaagaattatccccgggacctacccaatcacactgtttgcgaaaagacaattac 343
          |||
Sbjct: 61   gacatctaagaattatccccgggacctacccaatcacactgtttgcgaaaagacaattac 120

Query: 344  agtaccaaaggggaaaagactgattctgaggttgggagatttggatatcgaatcccagac 403
          |||
Sbjct: 121  agtaccaaaggggaaaagactgattctgaggttgggagatttggatatcgaatcccagac 180

Query: 404  ctgtgcttctgactatcttctcttcaccagctcttcagatcaatatggtccatactgtgg 463
          |||
Sbjct: 181  ctgtgcttctgactatcttctcttcaccagctcttcagatcaatatggtccatactgtgg 240

Query: 464  aagtatgactgttcccaaagaactcttgttgaacacaagtgaagtaaccgtccgctttga 523
          |||
Sbjct: 241  aagtatgactgttcccaaagaactcttgttgaacacaagtgaagtaaccgtccgctttga 300

Query: 524  gagtggatcccacatttctggccgggggttttttgtgacctatgcgagcagcgaccatcc 583
          |||
Sbjct: 301  gagtggatcccacatttctggccgggggttttttgtgacctatgcgagcagcgaccatcc 360

Query: 584  agatttaataacatgtttggaacgagctagccattatttgaagacagaatacagcaaatt 643
          |||
Sbjct: 361  agatttaataacatgtttggaacgagctagccattatttgaagacagaatacagcaaatt 420

Query: 644  ctgcccagctggttgtagagacgttagcaggagacatttctgggaatatggttagatggata 703
          |||
Sbjct: 421  ctgcccagctggttgtagagacgttagcaggagacatttctgggaatatggttagatggata 480

Query: 704  tagagatacctctttattgtgcaaagctgccatccatgcaggaataattgctgatgaact 763
          |||
Sbjct: 481  tagagatacctctttattgtgcaaagctgccatccatgcaggaataattgctgatgaact 540

Query: 764  aggtggccagatcagtgtgcttcagcgcaaagggatcagtcgatatgaagggaattctggc 823
          |||
Sbjct: 541  aggtggccagatcagtgtgcttcagcgcaaagggatcagtcgatatgaagggaattctggc 600

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Query: 824 caatggtgttcttttcgagggatggttcctgtcagacaagcgatttctgtttacctccaa 883
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 Sbjct: 601 caatggtgttcttttcgagggatggttcctgtcagacaagcgatttctgtttacctccaa 660

Query: 884 tggttgcagcagatccttgagttttgaacctgacgggcaaatacagagcttcttcctcatg 943
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 661 tggttgcagcagatccttgagttttgaacctgacgggcaaatacagagcttcttcctcatg 720

Query: 944 gcagtcggtcaatgagagtggagaccaagttcactggtctcctggccaagcccgaattca 1003
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 721 gcagtcggtcaatgagagtggagaccaagttcactggtctcctggccaagcccgaattca 780

Query: 1004 ggaccaaggcccatcatgggcttcgggcgacagtagcaacaaccacaaaccacgagagtg 1063
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 781 ggaccaaggcccatcatgggcttcgggcgacagtagcaacaaccacaaaccacgagagtg 840

Query: 1064 gctggagatcgatttgggggagaaaaagaaaataacaggaattaggaccacaggatctac 1123
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 Sbjct: 841 gctggagatcgatttgggggagaaaaagaaaataacaggaattaggaccacaggatctac 900

Query: 1124 acagtcgaacttcaacttttatgttaagagttttgtgatgaacttcaaaaacaataattc 1183
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 Sbjct: 901 acagtcgaacttcaacttttatgttaagagttttgtgatgaacttcaaaaacaataattc 960

Query: 1184 taagtggaagacctataaaggaattgtgaataatgaagaaaagggtgtttcagggttaactc 1243
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 Sbjct: 961 taagtggaagacctataaaggaattgtgaataatgaagaaaagggtgtttcagggttaactc 1020

Query: 1244 taactttcgggacccagtgcaaaacaatttcacccctcccatcggtggccagatatgtgcg 1303
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 Sbjct: 1021 taactttcgggacccagtgcaaaacaatttcacccctcccatcggtggccagatatgtgcg 1080

Query: 1304 ggttggtccccccagacatggcaccagaggatagccttgaaggtggagctcattgggttgcca 1363
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 Sbjct: 1081 ggttggtccccccagacatggcaccagaggatagccttgaaggtggagctcattgggttgcca 1140

Query: 1364 gattacacaaggtaatgattcattggtgtggcgcaagacaagtcaaagcaccagtggttc 1423
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 1141 gattacacaaggtaatgattcattggtgtggcgcaagacaagtcaaagcaccagtggttc 1200

Query: 1424 aactaagaaagaagatgagacaatcacaaggcccatcccctcggaagaaacatccacagg 1483
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 1201 aactaagaaagaagatgagacaatcacaaggcccatcccctcggaagaaacatccacagg 1260

Query: 1484 aataaacattacaacgggtggctattccattggtgctccttggtgtcctgggtgtttgctgg 1543

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|||||
Sbjct: 1261 aataaacattacaacggtggctattccattggtgctccttggtgtcctggtggttgcctgg 1320

Query: 1544 aatggggatctttgcagccttttagaaagaagaagaagaaggaagtccgtatggatcagc 1603
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Sbjct: 1321 aatggggatctttgcagccttttagaaagaagaagaagaaggaagtccgtatggatcagc 1380

Query: 1604 agaggctcagaaaacagactggttggaagcagattaaatatccctttgccagacatcagtc 1663
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Sbjct: 1381 ggaggctcagaaaacagactggttggaagcagattaaatatccctttgccagacatcagtc 1440

Query: 1664 agctgagtttaccatcagctatgataatgagaaggagatgacacaaaagttagatctcat 1723
|||||
Sbjct: 1441 agctgagtttaccatcagctatgataatgagaaggagatgacacaaaagttagatctcat 1500

Query: 1724 cacaagtgatatggcagggttaactccgttgactgccaaaatagcatccccaacgtgcagc 1783
|||||
Sbjct: 1501 cacaagtgatatggcagggttaactccgttgactgccaaaatagcatccccaacgtgcagc 1560

Query: 1784 cctccgcacatctatcagcaggttgccccggatggatctcagagatgaggatcggaacacca 1843
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Sbjct: 1561 cctccgcacatctatcagcaggttgccccggatggatctcagagatgaggattggaacacca 1620

Query: 1844 tggttctttccaccctaacaacaacaagggcagtaaattaaagtactctttgtaaggta 1903
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Sbjct: 1621 tggttctttccaccctaacaacaacaagggcagtaaattaaagtactctttgtaaggta 1680

Query: 1904 cagttaccgattaatctagagataaaaatatcttcttaaaaatatatttcattaaacacct 1963
|||||
Sbjct: 1681 cagttaccgattaatctagagataaaaatatcttcttaaaaatatatttcattaaacacct 1740

Query: 1964 atgctgtctctat 1976
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Sbjct: 1741 atgctgtctctat 1753

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NM_173674 versus Sequence 5

Length = 1620

Score = 3094 bits (1561), Expect = 0.0
Identities = 1564/1565 (99%)
Strand = Plus / Plus

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Query: 181 tcctggctttgctgctcgcggtctccgccccgctccggctgcaggcggaggagctgggtg 240
|||||
Sbjct: 56 tcctggctttgctgctcgcggtctccgccccgctccggctgcaggcggaggagctgggtg 115

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Query: 241 atggctgtggacacctagtgacttatcaggatagtggcacaatgacatctaagaattatc 300
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 116 atggctgtggacacctagtgacttatcaggatagtggcacaatgacatctaagaattatc 175

Query: 301 ccgggacctacccaatcacactgtttgcgaaaagacaattacagtaccaaaggggaaaa 360
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 176 ccgggacctacccaatcacactgtttgcgaaaagacaattacagtaccaaaggggaaaa 235

Query: 361 gactgattctgaggttgggagatttggatatcgaatcccagacctgtgcttctgactatc 420
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 236 gactgattctgaggttgggagatttggatatcgaatcccagacctgtgcttctgactatc 295

Query: 421 ttctcttcaccagctcttcagatcaatatgggtccatactgtggaagtatgactgttccca 480
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 296 ttctcttcaccagctcttcagatcaatatgggtccatactgtggaagtatgactgttccca 355

Query: 481 aagaactcttgttgaacacaagtgaagtaaccgtccgctttgagagtggatcccacattt 540
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 356 aagaactcttgttgaacacaagtgaagtaaccgtccgctttgagagtggatcccacattt 415

Query: 541 ctggccgggggttttttgctgacctatgcgagcagcgaccatccagatttaataacatggt 600
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 416 ctggccgggggttttttgctgacctatgcgagcagcgaccatccagatttaataacatggt 475

Query: 601 tggaacgagctagccattatttgaagacagaatacagcaaattctgcccagctgggttgta 660
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 476 tggaacgagctagccattatttgaagacagaatacagcaaattctgcccagctgggttgta 535

Query: 661 gagacgtagcaggagacatttctgggaatatggtagatggatatagagatacctctttat 720
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 536 gagacgtagcaggagacatttctgggaatatggtagatggatatagagatacctctttat 595

Query: 721 tgtgcaaagctgccatccatgcaggaataattgctgatgaactaggtggccagatcagtg 780
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 596 tgtgcaaagctgccatccatgcaggaataattgctgatgaactaggtggccagatcagtg 655

Query: 781 tgcttcagcgcaaagggatcagtcgatatgaagggattctggccaatggtgttctttcga 840
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 656 tgcttcagcgcaaagggatcagtcgatatgaagggattctggccaatggtgttctttcga 715

Query: 841 gggatggttccctgtcagacaagcgatttctgtttacctccaatggttgcagcagatcct 900
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 716 gggatggttccctgtcagacaagcgatttctgtttacctccaatggttgcagcagatcct 775

Query: 901 tgagttttgaacctgacgggcaaatacagagcttcttcctcatggcagtcggtcaatgaga 960
 |||
 Sbjct: 776 tgagttttgaacctgacgggcaaatacagagcttcttcctcatggcagtcggtcaatgaga 835

Query: 961 gtggagaccaagttcactggtctcctggccaagcccgacttcaggaccaaggcccatcat 1020
 |||
 Sbjct: 836 gtggagaccaagttcactggtctcctggccaagcccgacttcaggaccaaggcccatcat 895

Query: 1021 gggcttcgggacagtagcaacaaccacaaaccacgagagtggctggagatcgatttgg 1080
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 Sbjct: 896 gggcttcgggacagtagcaacaaccacaaaccacgagagtggctggagatcgatttgg 955

Query: 1081 gggagaaaaagaaaataacaggaattaggaccacaggatctacacagtcgaacttcaact 1140
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 Sbjct: 956 gggagaaaaagaaaataacaggaattaggaccacaggatctacacagtcgaacttcaact 1015

Query: 1141 tttatgttaagagttttgtgatgaacttcaaaaacaataattctaagtggaagacctata 1200
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 Sbjct: 1016 tttatgttaagagttttgtgatgaacttcaaaaacaataattctaagtggaagacctata 1075

Query: 1201 aaggaattgtgaataatgaagaaaaggtgtttcagggtaactctaactttcgggacccag 1260
 |||
 Sbjct: 1076 aaggaattgtgaataatgaagaaaaggtgtttcagggtaactctaactttcgggacccag 1135

Query: 1261 tgcaaaacaatttcatccctcccatcgaggccagatatgtgcgggttggtccccagacat 1320
 |||
 Sbjct: 1136 tgcaaaacaatttcatccctcccatcgaggccagatatgtgcgggttggtccccagacat 1195

Query: 1321 ggcaccagaggatagccttgaaggtggagctcattggttgccagattacacaaggtaatg 1380
 |||
 Sbjct: 1196 ggcaccagaggatagccttgaaggtggagctcattggttgccagattacacaaggtaatg 1255

Query: 1381 attcattggtgtggcgcaagacaagtcaaagcaccagtgtttcaactaagaaagaagatg 1440
 |||
 Sbjct: 1256 attcattggtgtggcgcaagacaagtcaaagcaccagtgtttcaactaagaaagaagatg 1315

Query: 1441 agacaatcacaaggcccatcccctcggaagaaacatccacaggaataaacattacaacgg 1500
 |||
 Sbjct: 1316 agacaatcacaaggcccatcccctcggaagaaacatccacaggaataaacattacaacgg 1375

Query: 1501 tggctattccattggtgctccttgtgtcctggtgtttgctggaatggggatctttgcag 1560
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 Sbjct: 1376 tggctattccattggtgctccttgtgtcctggtgtttgctggaatggggatctttgcag 1435

Query: 1561 cctttagaaagaagaagaagaaggaagtccgtatggatcagcagaggctcagaaaacag 1620
 |||

Sbjct: 1436 ccttttagaaagaagaagaagaaggaagtccgtatggatcagcggaggctcagaaaacag 1495

Query: 1621 actggttgaagcagattaaatatccctttgccagacatcagtcagctgagtttaccatca 1680
|||||

Sbjct: 1496 actggttgaagcagattaaatatccctttgccagacatcagtcagctgagtttaccatca 1555

Query: 1681 gctatgataatgagaaggagatgacacaaaagttagatctcatcacaagtgatatggcag 1740
|||||

Sbjct: 1556 gctatgataatgagaaggagatgacacaaaagttagatctcatcacaagtgatatggcag 1615

Query: 1741 gttaa 1745
|||||

Sbjct: 1616 gttaa 1620

NM_173674 versus Sequence 3 from Patent W00129219
Length = 1761

Score = 3094 bits (1561), Expect = 0.0
Identities = 1564/1565 (99%)
Strand = Plus / Plus

Query: 181 tcctggctttgctgctcgcggtctccgccccgctccggctgcagggcggaggagctgggtg 240
|||||

Sbjct: 197 tcctggctttgctgctcgcggtctccgccccgctccggctgcagggcggaggagctgggtg 256

Query: 241 atggctgtggacacctagtgtacttatcaggatagtggcacaatgacatctaagaattatc 300
|||||

Sbjct: 257 atggctgtggacacctagtgtacttatcaggatagtggcacaatgacatctaagaattatc 316

Query: 301 ccgggacctaccccaatcacactgtttgcgaaaagacaattacagtaccaaaggggaaaa 360
|||||

Sbjct: 317 ccgggacctaccccaatcacactgtttgcgaaaagacaattacagtaccaaaggggaaaa 376

Query: 361 gactgattctgagggttgggagatttggatatcgaatcccagacctgtgcttctgactatc 420
|||||

Sbjct: 377 gactgattctgagggttgggagatttggatatcgaatcccagacctgtgcttctgactatc 436

Query: 421 ttctcttcaccagctcttcagatcaatatggtccatactgtggaagtatgactgttccca 480
|||||

Sbjct: 437 ttctcttcaccagctcttcagatcaatatggtccatactgtggaagtatgactgttccca 496

Query: 481 aagaactcttggtgaacacaagtgaagtaaccgtccgctttgagagtggatcccacattt 540
|||||

Sbjct: 497 aagaactcttggtgaacacaagtgaagtaaccgtccgctttgagagtggatcccacattt 556

Query: 541 ctggccgggggttttttgctgacctatgcgagcagcgaccatccagatttaataacatgtt 600
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 557 ctggccgggggttttttgctgacctatgcgagcagcgaccatccagatttaataacatgtt 616

Query: 601 tggaacgagctagccattatttgaagacagaatacagcaaattctgcccagctggttgta 660
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 617 tggaacgagctagccattatttgaagacagaatacagcaaattctgcccagctggttgta 676

Query: 661 gagacgtagcaggagacatttctgggaatatggtatgatggatatagagatacctctttat 720
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 Sbjct: 677 gagacgtagcaggagacatttctgggaatatggtatgatggatatagagatacctctttat 736

Query: 721 tgtgcaaagctgccatccatgcaggaataattgctgatgaactaggtggccagatcagtg 780
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 Sbjct: 737 tgtgcaaagctgccatccatgcaggaataattgctgatgaactaggtggccagatcagtg 796

Query: 781 tgcttcagcgcaaagggatcagtcgatatgaagggattctggccaatggtgttctttcga 840
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 Sbjct: 797 tgcttcagcgcaaagggatcagtcgatatgaagggattctggccaatggtgttctttcga 856

Query: 841 gggatggttccctgtcagacaagcgatttctgtttacctccaatggttgcagcagatcct 900
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 Sbjct: 857 gggatggttccctgtcagacaagcgatttctgtttacctccaatggttgcagcagatcct 916

Query: 901 tgagttttgaacctgacggggcaaatacagagcttcttctcctcatggcagtcggtcaatgaga 960
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 Sbjct: 917 tgagttttgaacctgacggggcaaatacagagcttcttctcctcatggcagtcggtcaatgaga 976

Query: 961 gtggagaccaagtctactggtctcctggccaagcccgacttcaggaccaaggcccatcat 1020
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 977 gtggagaccaagtctactggtctcctggccaagcccgacttcaggaccaaggcccatcat 1036

Query: 1021 gggcttcgggcgacagtagcaacaaccacaaaccacgagagtggtggagatcgatttgg 1080
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 1037 gggcttcgggcgacagtagcaacaaccacaaaccacgagagtggtggagatcgatttgg 1096

Query: 1081 gggagaaaaagaaaataacaggaattaggaccacaggatctacacagtcgaacttcaact 1140
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 Sbjct: 1097 gggagaaaaagaaaataacaggaattaggaccacaggatctacacagtcgaacttcaact 1156

Query: 1141 tttatgttaagagttttgtgatgaacttcaaaaacaataattctaagtggagacctata 1200
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 1157 tttatgttaagagttttgtgatgaacttcaaaaacaataattctaagtggagacctata 1216

Query: 1201 aaggaattgtgaataatgaagaaaaggtgtttcagggtaactctaactttcgggacccag 1260
|||||
Sbjct: 1217 aaggaattgtgaataatgaagaaaaggtgtttcagggtaactctaactttcgggacccag 1276

Query: 1261 tgcaaaacaatttcatccctcccatcgtggccagatatgtgcgggttggtccccagacat 1320
|||||
Sbjct: 1277 tgcaaaacaatttcatccctcccatcgtggccagatatgtgcgggttggtccccagacat 1336

Query: 1321 ggcaccagaggatagccttgaaggtggagctcattgggtgccagattacacaaggtaatg 1380
|||||
Sbjct: 1337 ggcaccagaggatagccttgaaggtggagctcattgggtgccagattacacaaggtaatg 1396

Query: 1381 attcattggtgtggcgcaagacaagtcaaagcaccagtgtttcaactaagaaagaagatg 1440
|||||
Sbjct: 1397 attcattggtgtggcgcaagacaagtcaaagcaccagtgtttcaactaagaaagaagatg 1456

Query: 1441 agacaatcacaaggcccatcccctcggaagaaacatccacaggaataaacattacaacgg 1500
|||||
Sbjct: 1457 agacaatcacaaggcccatcccctcggaagaaacatccacaggaataaacattacaacgg 1516

Query: 1501 tggctattccattggtgctccttgttgtcctggtgtttgctggaatggggatctttgcag 1560
|||||
Sbjct: 1517 tggctattccattggtgctccttgttgtcctggtgtttgctggaatggggatctttgcag 1576

Query: 1561 cctttagaaagaagaagaagaaaggaagtccgtatggatcagcagaggctcagaaaacag 1620
|||||
Sbjct: 1577 cctttagaaagaagaagaagaaaggaagtccgtatggatcagcggaggctcagaaaacag 1636

Query: 1621 actggttgaagcagattaaatatccctttgccagacatcagtcagctgagtttaccatca 1680
|||||
Sbjct: 1637 actggttgaagcagattaaatatccctttgccagacatcagtcagctgagtttaccatca 1696

Query: 1681 gctatgataatgagaaggagatgacacaaaagttagatctcatcacaagtgatatggcag 1740
|||||
Sbjct: 1697 gctatgataatgagaaggagatgacacaaaagttagatctcatcacaagtgatatggcag 1756

Query: 1741 gttaa 1745
|||||
Sbjct: 1757 gttaa 1761

Score = 256 bits (129), Expect = 1e-65
Identities = 129/129 (100%)
Strand = Plus / Plus

Query: 1 ggcagcgactgcgccccgtcccgggcgccgcgctcgtcgcgcagaggaggcgccccggcccg 60
||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 17 ggcagcgactgcgccccgtcccgggcgccgcgctcgtcgcgcagaggaggcgccccggcccg 76

Query: 61 ggcagctgcggctcgggatccgtcgaggggaggccgagcttgccaagctggcgcccagcg 120
||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 77 ggcagctgcggctcgggatccgtcgaggggaggccgagcttgccaagctggcgcccagcg 136

Query: 121 gggtcatgg 129
|||||||
Sbjct: 137 gggtcatgg 145